

SECTION 05 5350

METAL GRATINGS AND FLOOR PLATES

LANL MASTER SPECIFICATION

When editing to suit project, author shall add job-specific requirements and delete only those portions that in no way apply to the activity (e.g., a component that does not apply). To seek a variance from applicable requirements, contact the ESM Structural POC.

When assembling a specification package, include applicable specifications from all Divisions, especially Division 1, General Requirements.

Delete information within "stars" during editing.

Specification developed for ML-3 projects. For ML-1 / ML-2, additional requirements and QA reviews are required.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Formed steel gratings.
- B. Formed aluminum gratings.
- C. Molded glass fiber gratings.
- D. Fabricated steel floor plates.

1.2 DESIGN REQUIREMENTS

- A. Use NAAMM A202.1 for design loads.
- B. Design for live load of [100 psf].
- C. Maximum deflection under live load is 1/240 of span.

1.3 SUBMITTALS

- A. Submit the following in accordance with Section 01 3300, Submittal Procedures:
 - 1. Catalog data with details of grate construction, and span and deflection tables.

PART 2 PRODUCTS

2.1 GRATING MATERIALS

A. [Use formed and galvanized steel conforming to ASTM A36, G90.]

B. [Use formed aluminum conforming to ASTM B221, Alloy 6063-T6.]

If glass fiber grating will be exposed to harsh chemicals, select the plastic binder to resist them.

C. Use molded glass fiber reinforced plastic conforming to [].

D. Provide appropriate anchorage and splicing fittings.

2.2 FLOOR PLATE MATERIALS

A. Use diamond plate galvanized steel sheet conforming to ASTM A526, G90.

2.3 GRATING FABRICATION

A. Fabricate grating to accommodate design loads.

B. Mechanically clinch joints of intersecting metal grating sections.

C. Provide non-slip top surface.

2.4 FLOOR PLATE FABRICATION

A. Shear steel plate to size required, and grind edges to provide an "eased" edge.

B. Galvanize after cutting and grinding.

PART 3 EXECUTION

3.1 INSPECTION

A. Verify that opening sizes and dimensional variations are acceptable to receive grating [floor plates].

B. Verify that supports are correctly positioned.

3.2 INSTALLATION

A. Install components in correct position, plumb and level.

B. Secure to prevent movement with appropriate fittings.

END OF SECTION

Do not delete the following reference information:

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This project specification is based on LANL Master Specification 05 5350 Rev. 0, dated January 6, 2006.